FORESTRY ABSTRACTS

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1. **Classification.** Abstracts are classified according to the *Oxford System of Decimal Classification for Forestry* (ODC). *See inside front cover.* Editions of this publication are also available from other sources in a number of languages.

2. **Terminology.** Terms appearing in the *Concise Oxford Dictionary* and Chambers' *Dictionary of Science and Technology* are ordinarily used in the text without explanation. The *Terminology of Forest Science, Technology, Practice and Products* and the *British Commonwealth Forest Terminology* are followed for forestry terms.

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(b) Language symbols. Capital initial letters indicate the language of the text, small letters the language(s) of the summary. The following abbreviations are used:

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Ch	= Chinese	In	= Indonesian	Ro	= Rumanian
Cs	= Czech	Is	= Icelandic	Ru	= Russian
Da	= Danish	It	= Italian	Sh	= Serbo-Croatian
De	= German	Ja	= Japanese	Sk	= Slovakian
Ee	= Estonian	Ko	= Korean	Sn	= Slovenian
En	= English	Li	= Lithuanian	Sv	= Swedish
Es	= Spanish	Lv	= Latvian	Tr	= Turkish
Fi	= Finnish	Ma	= Macedonian	Uk	= Ukrainian

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LTP	Tropical Products Institute, 56/62 Gray's Inn Road, London WC1X 8LU
OAEc.	Agricultural Economics Research Institute, Dartington House, Little Clarendon Street, Oxford.
OB	Bodleian Library, Oxford.
OBD	Dept. of Botany, South Parks Rd., Oxford.
OH	Hope Dept. of Entomology, University Museum, Parks Road, Oxford.

ORE	Department of Agriculture, Parks Road, Oxford.
ORS	Radcliffe Science Library, South Parks Road, Oxford.
OW	ARC Weed Research Organisation, Yarnton, Oxford, OX5 1PF.
OZ	Department of Zoology, Oxford.
PO	The British Library, Science Reference Library, 25 Southampton Buildings, Chancery Lane, London W.C.2.
PR	Building Research Establishment, Princes Risborough Laboratory, Aylesbury, Bucks HP17 9PX
Reinbek	Bundesforschungsanstalt für Forst- und Holzwirtschaft, Leuschnerstrasse 91, 2050 Hamburg 80, W. Germany.
TRADA	Timber Research and Development Association, Hughenden Valley, High Wycombe, Bucks HP14 4ND.
X	Miscellaneous; apply to Commonwealth Forestry Bureau for details.

4. Abbreviations and Symbols

(a) Abbreviations include:

a.e.	= acid equivalent	g.b.h.	= girth, breast height	oz	= ounce(s)
a.i.	= active ingredient			p.a.	= per annum
b.a.	= basal area	hp	= horse-power	p.a.i.	= periodic annual increment
bd ft	= board foot (feet)	ht.	= height		
b.h.	= breast height	lb	= pound(s) (weight)	p.p.m.	= parts per million
ca.	= (*circa*) approximately	LC or LD	= lethal concentration or lethal dose	r.h.	= relative humidity
				s.l.	= *sensu lato*
c.a.i.	= current annual increment	m.a.i.	= mean annual increment	sp.gr	= specific gravity
				s.s	= *sensu stricto*
cf.	= (*confer*) compare			u.b.	= under bark
cv(s).	= cultivar(s)	min	= minutes	viz.	= *videlicet* ; namely
d.b.h.	= diameter, breast height	m.c.	= moisture content	vs.	= *versus;* compared with
		o.b.	= over bark		
gal	= gallon(s)			wt.	= weight
(1 US gal	= 0.84 English gal)			Also *FA*	= Forestry Abstracts

(b) Symbols include:

∥	= parallel (in timber testing, 'parallel to grain')	⊁	= not greater than
		⊀	= not less than
⊥	= at 90°; perpendicular (in timber testing. 'perpendicular to grain')	×	(with scientific names) = hybrid
		+	(with scientific names) = graft chimaera; asexual hybrid
≃	= approximately equals		
>	= greater than	♂(s)	= male(s)
<	= less than	♀(s)	= female(s)
⩾	= equal to or greater than	⚥(s)	= hermaphrodite(s)
⩽	= equal to or less than		

5. Dissertation Abstracts International

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(b) Cross references to notices appearing in the same number of *Forestry Abstracts* are given under the classification headings.

e.g. **864. Utilization of Lignin**
See also absts. 5769, 6062.

Cross references may also occur in the text of abstracts.

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ERRATA

(lines are counted from the beginning of the bibliographic data in each item.)

Volume 20

Page	*Abstract*	*Line*	
468	3831	1	for 'McNIGHT, T.S.' read 'McKNIGHT, T.S.'

Author Index

17	Col. 3		for 'McNight, T.S.' read 'McKnight, T.S.'

Volume 25

479	4288	1	for 'McNIGHT, T.S.' read 'McKNIGHT, T.S.'

Author Index

21	Col. 2		for 'McNight, T.S.' read 'McKnight, T.S.'

Volume 27

396	3436	1	for 'QURESHI, M.A.' read 'QURAISHI, M.A.'
718	6371	last	for '*Beilschmiedia taraire*' read '*Beilschmiedia tarairi*'

Author Index

841	Col. 2		after 'Quraishi' delete '[Qureshi]'

Species Index

858	Col. 3		for '*B[eilschmiedia] taraire*' read '*B. tarairi*'

Volume 28

413	3336	1	for 'STOICULESCU, C.D.' read 'STOICULESCU, C.'
444	3636	1	for 'STOICULESCU, C.D.' read 'STOICULESCU, C.'

Author Index

807	Col. 3		for 'Stoiculescu, C.D.' read 'Stoiculescu, C.'

Species Index

818	Col. 2		for 'C[arpinus] turczaninowii' read 'C. turczaninovii'

Volume 29 Author Index

787	Col. 1		after 'Bauch, J., and Liese, W.' for '2917' read '2947'

Volume 31

516	4345	9	for '*paulstris*' read '*palustris*'

Volume 32

164	1265	1	for 'GIERT-SIEBENLIST, V.' read 'GIERTZ-SIEBENLIST, V.'
277	2234	1	for 'CROAT, C.B.' read 'CROAT, T.B.'

Author Index

889	Col. 1		for 'Croat, C.B.' read 'Croat, T.B.'
894	Col. 2		for 'Giert-Siebenlist, V.' read 'Giertz-Siebenlist, V.'

Species Index

933	Col. 2		for 'C[arpinus] turczaninowii' read 'C. turczaninovii'

Volume 33

226	1901	penult	for '*Beilschmiedia tatairi*' read '*Beilschmiedia tarairi*'
358	3071	1	for 'ALEMDAG, S.' read 'ALEMDAG, I.S.'
781	6728	1&7	for 'stereotype' read 'stereotope'

Author Index

839	Col. 3		for 'Alemdag, S.' read 'Alemdag, I.S.'

Species Index

891	Col. 2		for 'Apulia' read 'Apuleia'
891	Col. 3		for 'B[eilschmiedia] tatairi' read 'B. tarairi'
895	Col. 3		for 'E[ucalyptus] globoides' read 'E. globoidea'
904	Col. 3		after 'P[inus] kochiana' for '247' read '248'

Page	*Abstract*	*Line*	
Volume 34			
48	543	last	for '6690' read '669'
268	2976	10	for '*Plistiphora*' read '*Pleistophora*'
333	3658	10	for 'include' read 'increase'
460	5006	7&12	for '*U. parviflora*' read '*U. parvifolia*'
461	5019	4	for '*A. opulus*' read '*A. opalus*'
571	6172	1	for 'KULL, V.' read 'KULL, U.'
Author Index			
706	Col. 1		after 'Ifju, G.' insert '669'
708	Col. 3		after 'Kull, U.' add '6172' delete 'Kull, V. 6172'
708	Col. 4		after 'Labosky, P., Jr.' add '669'
Species Index			
724	Col. 2		for '***A[cer] opulus***' read '***A. opalus***'
746	Col. 3		for '***Plistiphora***' read '***Pleistophora***'
754	Col. 2		for '***Turpinea***' read '***Turpinia***'
754	Col. 3		for '***U[lmus] parviflora***' read '***U. parvifolia***'
Volume 35			
111	1111	15	for 'plant' read 'plane'
158	1563	1	for 'STOICULESCU, C.D.' read 'STOICULESCU, C.'
280	2838	6	for '*P. mauritania*' read '*P. mauritiana*'
448	4601	6	for 'immature' read 'overmature'
545	5659	2-3	for '(1974) 27 Aug., 10 pp.' read '(1973) **35**, 20-29.'
612	6391	1	for 'BARRETT, J.R.' read 'BARNETT, J.R.'
Author Index			
792	Col. 2		after 'Barnett, J.R.' add '6391' delete 'Barrett, J.R. 6391'
815	Col. 1		for 'Stoiculescu, C.D.' read 'Stoiculescu, C.'
Species Index			
835	Col. 2		for '***Pandaca mauritania***' read '***Pandaca mauritiana***'
Subject Index			
876	Col. 2		under '**Surveying and mapping**' for 'live surveys' read 'line surveys'
Volume 36			
15	167	1	for 'CAPELLI, M.' read 'CAPPELLI, M.'
27	298	1	for 'BURDONS, J.J.' read 'BURDON, J.J.'
30	329	1	for 'WASBURN, R.I.' read 'WASHBURN, R.I.'
65	717	1	for 'BUKUZIS, E.V.' read 'BAKUZIS, E.V.'
75	821	7	for '*Zeyhera*' read '*Zeyheria*'
81	889	1	for 'MCLAUGHLIN, T.A.' read 'MCLAUGHLAN, T.A.'
91	1012	1	for 'GAMBINI, A.' read 'CAMBINI, A.'
169	1876	1	for 'NIGAN, S.K.' read 'NIGAM, S.K.'
190	2104	1	for 'CHERVONNYĬ, N.G.' read 'CHERVONNYĬ, M.G.'
194	2146	1	for 'BECH-ANDERSON, J.' read 'BECH-ANDERSEN, J.'
254	2820	7	for '*leptolepia*' read '*leptolepis*'
266	2969	1	for 'BLANKENHORN, F.R.' read 'BLANKENHORN, P.R.'
299	3337	1	for 'STOICULESCU, D.C.' read 'STOICULESCU, C.' delete '[STOICULESCU, C.D.]'
300	3338	1	for 'STOICULESCU, C.D.' read 'STOICULESCU, C.'
309	3454	1	for 'BEIER-PETERSEN, B.' read 'BEJER-PETERSEN, B.'
314	3517	1	for 'MOLINA CAMACHO, A.' read 'MOLINA CAMACHO, J.A.'
320	3582	1	for 'VAĬNSTEĬN, B.Z.' read 'VAĬNSHTEĬN, B.Z.'
352	3916	1	for 'YAWNY, H.W.' read 'YAWNEY, H.W.'
404	4491	last	for '8279' read '3279'
421	4686	1	for 'BELLA, H.S.' read 'BHELLA' H.S.'
433	4831	11-13	replace last sentence by 'In trials during the dormant season, ULV applications of 2,4,-D were effective only when high concentrations of herbicide were used, with attendant risk of damage to the crop after early spring applications.'

Page	*Abstract*	*Line*	
453	5065	1	for 'HRADETSKY, J.' read 'HRADETZKY, J.'
467	5229	1	for 'PURSLOW, D.T.' read 'PURSLOW, D.F.'
469	5242	1	for 'POPER, R.' read 'POPPER, R.'
487	5443	1	for 'BROCKHUIZEN, J.T.M. VAN' read 'BROEKHUIZEN, J.T.M. VAN'
491	5500	1	for 'GANMORE-NEWMANN, R.' read 'GANMORE-NEUMANN, R.'
509	5712	1	for 'LADEISHIKOVA, E.I.' read 'LADEISHCHIKOVA, E.I.'
541	6098	1	for 'NGOC-SANH, B.' read 'BUI, N.S.'
542	6117	1	for 'POLLARD, D.W.F.' read 'POLLARD, D.F.W.'
570	6433	1	for 'HEDQUIST, K.-H.' read 'HEDQVIST, K.-J.'
572	6458	3-4	delete '*Pacific Forest Research Centre,*'
573	6471	2	for '**pet**' read '**pest**'
594	6715	1	for 'LOUNASMMA, M.' read 'LOUNASMAA, M.'
643	7315	3	for '***arboreum***' read '***arboreus***'
653	7416	2	for 'ABUDAKIROV, N.K.' read 'ABUBAKIROV, N.K.'
667	7575	2	for '***Apserulo-Fagion***' read '***Asperulo-Fagion***'
669	7600	1	for '**Symposium stand development**' read '**Symposium on stand establishment**'
674	7648	22	for '*W.S. Filho*' read '*W. Suiter Filho*'
691	7836	1	after '***Scleroderris***' delete comma
693	7870	1	for 'SUNDARAN, K.M.S.' read 'SUNDARAM, K.M.S.'
Author Index			
728	Col. 1		after 'Bakuzis, E.V.' add '-717'
730	Col. 1		insert 'Bui, N.S. 6098'
			delete 'Bukuzis, E.V. 717'
744	Col. 3		delete 'Ngoc-Sanh, B. 6098'
751	Col. 1		for 'Stoiculescu, C.D.' read 'Stoiculescu, C.'
			delete 'Stoiculescu, D.C. 3337'
Volume 37			
11	122	1	for 'POTHILL, R.M.' read 'POLHILL, R.M.'
12	141	1	for 'OBILE, Z.O.' read 'GBILE, Z.O.'
28	308	1	for 'LAU, L.D.' read 'LAU, L.S.'
49	555	5	for '+ ii pp.' read '+ 11 pp.'
55	639	2	for 'YAMAGASHI, K.' read 'YAMAGISHI, K.'
60	708	1	for 'PAVANASASIVUM, G.' read 'PAVANASASIVAM, G.'
71	815	1	for 'MOGENSON, H.L.' read 'MOGENSEN, H.L.'
87	995	4	for '*Note*' read '*Report, Canadian Forestry Service*'
89	1016	2	after '**alternatives.**' insert '*USDA Forest Service Research Paper, Intermountain Forest and Range Experiment Station*'
93	1069	2	for 'HEYBROCK, H.M.' read 'HEYBROEK, H.M.'
96	1104	12	for 'host-plan' read 'host-plant'
103	1177	2	for '*Skogsvrdsfo*erbunds Tidskrift' read '*Skogsvårdsförbunds Tidskrift*'
112	1275	1	for 'BELLMAN, H.' read 'BELLMANN, H.'
112	1278	1	for 'TIRZINA, YU.É.' read 'TIRZINYA, YU.É.'
112	1282	1	for 'JONES, E.B.C.' read 'JONES, E.B.G.'
118	1357	penult.	for '*R.D.L. Tolemore*' read '*R.D.L. Toleman*'
130	1484	1	for 'DINH' read 'DINH'
133	1519	5	for '*Biological*' read '*Ecological*'
172	1967	3	for '***Sporotrichium***' read '***Sporotrichum***'
203	2284	7	after '10 ref.' insert 'X'
209	2348	3	for 'BB' read 'BLL'
221	2480	1	for 'STOICULESCU, C.D.' read 'STOICULESCU, C.'
233	2618	1	for 'SESHARDRI, T.R.' read 'SESHADRI, T.R.'
241	2700	1	for 'ROCKWOOD, L.I.' read 'ROCKWOOD, L.L.'
253	2837	12	for '*Pseudotsuga taxifolia*' read '*Pseudotsuga menziesii*'
259	2891	1	for 'GIACCOBE, A.' read 'GIACOBBE, A.'
263	2939	1	for 'PETTERSON, B.' read 'PETTERSSON, B.'
279	3118	1	for 'LEIKDA, M.' read 'LEIKOLA, M.'
280	3130	1	for 'MARSHALL, J.' read 'MARSCHALL, J.'
289	3238	17	for '*R. Trnobranský*' read '*K. Trnobranský*'
296	3321	1	after 'TELISHEVSKII' insert ',D.A.'
301	3364	10	for 'WI and CI' read '*WI* and *-CI*'
		11	for 'WI' read '*WI*'
		13	for 'WI and CI' read '*WI* and *CI*'
304	3395	1	for 'GERETTSON-CORNELL, L.' read 'GERRETTSON-CORNELL, L.'

Page	*Abstract*	*Line*	
305	3404	4	delete '*UW*'
328	3666	8	for '3625 m' read '3625 ft'
330	3686	3	after '*Forestières*' insert ', *Tunisia*'
379	4222	1	for 'MARQUES DE MELO, C.F.' read 'MELO, C.F.M. DE'
		2	for 'MELLOW ALVES, S. DE' read 'ALVES, S. DE M.'
396	4409	2	for '[En, X.]' read '[En, ORS]'
402	4475	1	for 'KASZHUREWICZ, A.' read 'KASZKUREWICZ, A.'
422	4692	3	after '(1974)' insert 'No.'
425	4723	3	for '*Department*' read '*Development*'
519	5630	5	for '*V.S. Shurnakov*' read '*V.S. Shumakov*'
524	5671	1	for 'SUKHINEN, A.I.' read 'SUKHININ, A.I.'
530	5733	1	for 'KEMP, S.' read 'KEMPE, S.'
539	5831	1	for 'ROSNOV, B.' read 'ROSNEV, B.'
540	5845	1	for 'BARRICHELLO, L.E.G.' read 'BARRICHELO, L.E.G.'
572	6190	1	for 'HORNVEDT, R.' read 'HORNTVEDT, R.'
584	6319	3	after '*Lantbruksakademiens*' insert '*Tidskrift*'
594	6434	1	for 'BOCHETTI FOELKEL, C.E.' read 'FOELKEL, C.E.B.'
597	6466	1	for 'SULTANBAWA, M.V.S.' read 'SULTANBAWA, M.U.S.'
603	6534	5&6	for '*elephas*' read '*elaphus*'
620	6715	1	for 'FILHO, A.V.' read 'VILLELA FILHO, A.'
683	7400	1	for 'TRZESNIOSKI, A.' read 'TRZESNIOWSKI, A.'
701	7603	1	for 'SANIERSKI, M.' read 'SANIEWSKI, M.'
701	7603	1	for 'PIENIAZEK, I.' read 'PIENIĄŻEK, J.'